

Gravatt, Dan

From: Tapia, Cecilia
Sent: Wednesday, May 29, 2013 7:52 AM
To: Gravatt, Dan
Subject: Re: Please develop a couple of talking points on why no alpha or beta scans --- send to Whitley

Also can you indicate when republic conducted previous alpha and beta.

From: Gravatt, Dan
Sent: Wednesday, May 29, 2013 7:31:33 AM
To: Tapia, Cecilia; Hooper, Charles A.
Cc: Singletary, DeAndre; Whitley, Christopher; Hood, Rich; Hammerschmidt, Ron
Subject: RE: Please develop a couple of talking points on why no alpha or beta scans --- send to Whitley

Cecilia, Chuck and I talked this morning and here is what we came up with:

- Alpha and beta scans were not conducted by the ASPECT airplane because alpha and beta particles cannot travel very far in air. Alpha particles may travel a few inches in air, while beta particles may travel a few feet in air. These particles cannot travel far enough to reach the ASPECT airplane's sensors.
- Since alpha and beta particles cannot travel very far in air, emissions of these particles from soil at the surface of the West Lake Landfill OU1 cells pose no risk to people living around the site.
- Alpha and beta decays of uranium, thorium and their daughter products also release gamma rays, which can be detected by the ASPECT airplane. Thus, detecting gamma rays from the surface of the West Lake Landfill OU1 cells provides indirect evidence for the alpha and beta decays occurring in surface soil in the OU1 cells.

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Principles and integrity are expensive, but they are among the very few things worth having.

From: Tapia, Cecilia
Sent: Tuesday, May 28, 2013 4:42 PM
To: Hooper, Charles A.; Gravatt, Dan
Cc: Singletary, DeAndre; Whitley, Christopher; Hood, Rich; Hammerschmidt, Ron
Subject: Please develop a couple of talking points on why no alpha or beta scans --- send to Whitley
Importance: High

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